

# BG12232E1

### Feature

1. COB with metal frame
2. built-in controller SBN1661G-M18 or equivalent
3. +5V single power supply
4. 1/32 duty cycle
5. Option: LED



### Mechanical Data

Item	Standard Value	Unit
Module Dimension	68 x 26.8	mm
Viewing Area	61 x 19	mm
Dot Size	0.42 x 0.47	mm
Dot Pitch	0.46 x 0.51	mm

### Pin Assignment

Pin	Symbol	Function
1	Vss	Ground
2	Vdd	+5V
3	VO	Operating voltage for LCD
4	AO	H : Data L : Instruction
5	R/W	R/W for 68 serial
6	E1	Data latch for Chip1
7~14	DB0~DB7	Data bus line
15	E2	Data latch for Chip2
16	RES	Reset
17	A	Power Supply for B/L ( + )
18	K	Power Supply for B/L ( - )

### Electronic Characteristics

Item	Symbol	Condition	Typical Value	Unit
Input Voltage	Vdd	Vdd = +5V	5.0	V
Supply Current	Idd	Vdd = +5V	1.0	mA
LCD Driving Voltage	Vdd-Vo	25°C	4.8	V
LED Forward Voltage (White)	Vf	25°C	3.1	V
LED Forward Current	If	25°C	45	mA

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### Dimension

